

CLAIMS

1 1. A method for evaluating verification of data by an
2 operator, comprising:

3 presenting the data to the operator on a
4 computer-controlled display;

5 measuring a time duration over which the operator
6 interacts with the display in verifying the presented
7 data; and

evaluating the verification of the data by the operator responsive to the time duration.

1 2. A method according to claim 1, wherein presenting
2 the data comprises displaying characters from a document
3 to which codes have been assigned so that the operator
4 can verify that the assigned codes are correct.

1 3. A method according to claim 2, wherein displaying
2 the characters comprises displaying results of optical
3 character recognition (OCR) processing.

1 4. A method according to claim 3, wherein displaying
2 the results comprises displaying together a plurality of
3 characters which have been assigned the same code by the
4 OCR processing.

1 5. A method according to claim 2, wherein displaying
2 the characters comprises presenting characters in the
3 form of a word.

1 6. A method according to claim 1, wherein measuring a
2 time duration over which the operator interacts with the
3 display comprises measuring the time taken by the
4 operator to verify an entire screen of the data.

1 7. A method according to claim 1, wherein measuring the
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2 time duration over which the operator interacts with the
3 display comprises measuring an interaction with a
4 particular item on a screen of the data.

1 8. A method according to claim 7, wherein measuring the
2 interaction with the particular item on the screen
3 comprises monitoring use of a pointing device by the
4 operator.

1 9. A method according to claim 1, wherein evaluating
2 the verification of the data comprises assigning a
3 confidence level to the data responsive to the time
4 duration.

1 10. A method according to claim 9, wherein assigning the
2 confidence level comprises lowering the confidence level
3 as the time duration increases.

1 11. A method according to claim 10, and further
2 comprising effecting a corrective action responsive to
3 the low confidence level.

1 12. A method according to claim 11, wherein effecting
2 the corrective action comprises presenting the data to a
3 second operator.

1 13. A method according to claim 1, wherein evaluating
2 the verification of the data comprises rejecting the
3 verification of the data when the time duration exceeds a
4 predetermined limit.

1 14. A method according to claim 13, wherein rejecting
2 the verification comprises passing the data to another
3 operator for verification.

1 15. A method according to claim 1, wherein measuring the
2 time duration comprises calculating an average time
3 duration for the operator to process a given quantity of

4 the data, and comparing the time duration to the average.

1 16. A method according to claim 1, wherein measuring the
2 time duration over which the operator interacts with the
3 display comprises measuring movement of an eye of the
4 operator in viewing the display.

1 17. A method according to claim 1, wherein evaluating
2 the verification of the data comprises rejecting the
3 verification of the data when the time duration is less
4 than a predetermined limit.

1 18. Data verification apparatus, comprising:
2 an interactive display, configured to present data
3 for verification to an operator;
4 an input device coupled to the interactive display
5 so as to enable the operator to verify the presented data
6 by interaction with the display; and
7 a processor arranged to measure a time duration
8 during which the operator interacts with the display in
9 verifying the presented data, and to evaluate the
10 verification of the data by the operator responsive to
11 the time duration.

1 19. Apparatus according to claim 18, wherein the data
2 comprise characters from a document to which a code has
3 been assigned, presented so that the operator can verify
4 that the assigned code is correct.

1 20. Apparatus according to claim 18, wherein the codes
2 are determined by optical character recognition (OCR)
3 processing of the characters.

1 21. Apparatus according to claim 20, wherein the data
2 presented for verification comprise a plurality of
3 characters which have been classified by the OCR

4 processing as having the same code.

1 22. Apparatus according to claim 18, wherein the
2 processor is arranged to measure the time duration over
3 which the operator interacts with the whole screen.

1 23. Apparatus according to claim 18, wherein the
2 processor is arranged to measure the time duration over
3 which the operator interacts with a particular item on
4 the screen.

1 24. A system according to claim 18, and further
2 comprising an eye tracking device, adapted to measure
3 movement of an eye of the operator in viewing the
4 display, wherein the processor is coupled to receive an
5 input from the eye tracking device for use in evaluating
6 the verification of the data.

1 25. A computer software product for evaluating
2 verification of data by an operator, the product
3 comprising a computer-readable medium in which program
4 instructions are stored, which instructions, when read by
5 a computer, cause the computer to present the data to the
6 operator on a computer-controlled display, to measure a
7 time duration over which the operator interacts with the
8 display in verifying the presented data, and to evaluate
9 the verification of the data by the operator responsive
10 to the time duration.

1 26. A product according to claim 25, wherein the
2 instructions cause the computer to display characters
3 from a document to which codes have been assigned so that
4 the operator can verify that the assigned codes are
5 correct.

1 27. A product according to claim 26, wherein the

2 instructions cause the computer to display results of
3 optical character recognition (OCR) processing.

1 28. A product according to claim 27, wherein the
2 instructions cause the computer to display together a
3 plurality of characters which have been assigned the same
4 code by the OCR processing.

1 29. A product according to claim 27, wherein the
2 instructions cause the computer to present characters in
3 the form of a word.

1 30. A product according to claim 25, wherein the
2 instructions cause the computer to measure the time taken
3 by the operator to verify an entire screen of the data.

1 31. A product according to claim 25, wherein the
2 instructions cause the computer to measure a time
3 duration of an interaction with a particular item on a
4 screen of the data.

1 32. A product according to claim 31, wherein the
2 instructions cause the computer to monitor use of a
3 pointing device by the operator.

1 33. A computer software product according to claim 25,
2 wherein the instructions cause the computer to assign a
3 confidence level to the data responsive to the time
4 duration.

1 34. A product according to claim 33, wherein the
2 instructions cause the computer to lower the confidence
3 level as the time duration increases.

1 35. A product according to claim 34, and wherein the
2 instructions cause the computer to effect a corrective
3 action responsive to the low confidence level.

1 36. A product according to claim 35, wherein the
2 instructions cause the computer to present the data to a
3 second operator.

1 37. A product according to claim 25, wherein the
2 instructions cause the computer to reject the
3 verification of the data when the time duration exceeds a
4 predetermined limit.

1 38. A product according to claim 37, and wherein the
2 instructions cause the computer to pass the data to
3 another operator for verification.

1 39. A product according to claim 25, wherein the
2 instructions cause the computer to calculate an average
3 time duration for the operator to process a given
4 quantity of the data, and to compare the time duration to
5 the average.

1 40. A product according to claim 25, wherein the
2 instructions cause the computer to measure a time
3 duration of a mouse cursor dwelling substantially on one
4 item on the display by tracking the cursor by means of a
5 tracking device, the tracking device connected
electrically to the computer.

1 41. A product according to claim 25, wherein the
2 instructions cause the computer to measure a time
3 duration of a movement of an operator's eye by tracking
4 the eye by means of a tracking device, the tracking
5 device connected electrically to the computer.

1 42. A product according to claim 25, wherein the
2 instructions cause the computer to reject the
3 verification of the data when the time duration is less
4 than a predetermined limit.